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APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/719,320	9,320 11/21/2003		Kenneth James Kozak	100736/0504851	3081
26874	7590 05/04/2006			EXAMINER	
FROST BR		ODD, LLC	TONGUE, LAKIA J		
2200 PNC CI 201 E. FIFTH		T	ART UNIT	PAPER NUMBER	
CINCINNAT		· <del>-</del>	1645		
				DATE MAILED: 05/04/200	6

Please find below and/or attached an Office communication concerning this application or proceeding.

•	Application No.	Applicant(s)	
	10/719,320	KOZAK, KENNETH JAMES	
Office Action Summary	Examiner	Art Unit	
	Lakia J. Tongue	1645	
The MAILING DATE of this communication Period for Reply		ith the correspondence address	
A SHORTENED STATUTORY PERIOD FOR F WHICHEVER IS LONGER, FROM THE MAILIN  - Extensions of time may be available under the provisions of 37 of after SIX (6) MONTHS from the mailing date of this communication of 11 NO period for reply is specified above, the maximum statutory failure to reply within the set or extended period for reply will, by Any reply received by the Office later than three months after the earned patent term adjustment. See 37 CFR 1.704(b).	NG DATE OF THIS COMMUNI CFR 1.136(a). In no event, however, may a ion. period will apply and will expire SIX (6) MOI statute, cause the application to become Al	CATION.  reply be timely filed  ITHS from the mailing date of this communication.  BANDONED (35 U.S.C. § 133).	
Status			
<ul> <li>1) Responsive to communication(s) filed on</li> <li>2a) This action is FINAL. 2b)</li> <li>3) Since this application is in condition for a closed in accordance with the practice ur</li> </ul>	] This action is non-final. llowance except for formal mat		
Disposition of Claims			
4)  Claim(s) 1-16 is/are pending in the application 4a) Of the above claim(s) is/are with 5)  Claim(s) is/are allowed.  6)  Claim(s) 1-16 is/are rejected.  7)  Claim(s) is/are objected to.  8)  Claim(s) are subject to restriction is	thdrawn from consideration.		
Application Papers			
9) The specification is objected to by the Exact 10) The drawing(s) filed on is/are: a) Applicant may not request that any objection Replacement drawing sheet(s) including the county The oath or declaration is objected to by the specific specific and the specific spe	☐ accepted or b)☐ objected to to the drawing(s) be held in abeya correction is required if the drawing	nce. See 37 CFR 1.85(a). (s) is objected to. See 37 CFR 1.121(d).	
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for for a) All b) Some * c) None of:  1. Certified copies of the priority docu 2. Certified copies of the priority docu 3. Copies of the certified copies of the application from the International E * See the attached detailed Office action for	uments have been received. uments have been received in A e priority documents have beer Bureau (PCT Rule 17.2(a)).	Application No  received in this National Stage	
Attachment(s)  1) Notice of References Cited (PTO-892)  2) Notice of Draftsperson's Patent Drawing Review (PTO-9-3) Information Disclosure Statement(s) (PTO-1449 or PTO-1449	48) Paper No	Summary (PTO-413) s)/Mail Date nformal Patent Application (PTO-152) 	

# **DETAILED ACTION**

Applicant's response filed on January 9, 2006 is acknowledged. Claims 1-16 are pending and under consideration.

The text of those sections of Title 35, U.S. Code not included in this action can be found in the prior Office Action.

# Rejections Withdrawn

1. In view of applicants' response the rejection under 35 U.S.C. 102(e) as being anticipated by Reiter et al (US 2004/0023316 A1) on page 3, paragraph 4 is withdrawn.

# Rejections Maintained

2. The rejection of claims 1-10 and newly amended claims 11-16 under 35 U.S.C 112, first paragraph, as failing to comply with the written description requirement is maintained for the reasons set forth in the previous office action on page 4, paragraphs 8-10.

Applicant urges that the term "specific", when used in context of the present specification in the phrase *H. pylori* antigens antibodies inherently means specific to *H. pylori*.

It is the examiners position that the term "specific" includes a continuum of specificity and is not limited to the absolute lack of reactivity with other strains and species as now claimed. Moreover, the claims as amended recite new matter. The limitation "wherein such antigen specific antibodies bind to *H. pylori* antigens and do not

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react with different species and strains of Helicobacter or Campylobacter" is new matter.

The examiner is unclear applicants' grounds for a) wherein antigen specific antibodies bind to *H. pylori* antigens and do not react with different species and strains of Helicobacter or Campylobacter and b) an antibody being genus directed monoclonal antibody that reacts with different species and strains of Helicobacter or Campylobacter and also binds to *H. pylori* antigen.

The newly added claim language conflicts with what applicant has disclosed in the instant specification. The instant specification submits that one problem with immunoassays is its cross-reactivity. Moreover, applicant submits that the antigens of H. pylori, in particular, the putative flagella protein, have shown that some of these antigens are not specific to H. pylori and are also found in other bacteria such as C. jenui and C. coli (0005). While the antigen may be specific for H. pylori, the same antigen may also be cross-reactive with Campylobacter. How will applicant know that the antigen is truly specific for *H. pylori* and that it will not cross-react. Further, Sato (Helicobacter pylori in culture: an ultrastructural study, Hokkaido Igaku Zasshi, 2000; 75(3): 187-96) did a studying using H. pylori 43504, which is the same genus and specie as that in the instant specification, to teach that flagella with a sheath originated from a concave depression at the end of the organism frequently attaches to adjacent organisms. Where in the instant specification has applicant provided support for the claims as amended? Has applicant shown that H. pylori antigens do not cross-react with different species and strains of Helicobacter or Campylobacter?

Regarding applicants' recitation of an antibody being a genus directed monoclonal antibody that reacts with different species and strains of Helicobacter or Campylobacter and also binds to *H. pylori* antigen, the examiner is not sure how this is accomplished. The instant specification submits that genus specific monoclonal antibodies can cross-react with different species and strains of Helicobacter or Campylobacter (0013). How is the recited limitation factual? How does cross-reactivity take place and applicant still be able to have a specific antibody capable of binding to *H. pylori* antigens. No original descriptive support for the claimed invention could be found in the instant specification.

Lastly, the examiner would like to point applicants' attention to (0019) where applicant submits that cross-reactivity can be addressed/reduced in the formulation of the *H. pylori* specific antibody solutions by buffering and formulating the wash with the addition of salts and surfactants to control cross-reactivity.

#### **New Grounds of Rejection**

#### Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

3. Claims 1-16 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. The examiner is unclear what applicant intends by

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"mixtures thereof". Does applicant mean a mixture of monoclonal antibodies, a mixture of polyclonal antibodies or a mixture of both monoclonal and polyclonal antibodies?

#### Conclusion

4. No claims are allowed.

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Lakia J. Tongue whose telephone number is 571-272-2921. The examiner can normally be reached on Monday-Friday 7-4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Lynette Smith can be reached on 571-272-0864. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

4/14/06

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SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 1600